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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: METHOD FOR PREPARING MATERIALS CONTAINING BINDER SYSTEMS DERIVED FROM AMORPHOUS SILICA AND BASES

(57) Abstract: The present invention concerns a method for preparing materials containing binder systems derived from amorphous silica and bases as well as the materials prepared by the method. Relative to known methods, the present invention allows for continuous production of material as the two components of the binder are brought onto into contact where the binder system is to be applied. The product achieved by the invention has a broad range of applications, such as for construction materials, insulating materials, fire proof materials, reinforcement materials etc. the present invention also relates to a method for preparing materials containing binder systems derived from amorphous inorganic material and bases as well as the materials prepared by the method.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000520

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C04B14/06 C04B40/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US 2003/233962 A1 (DONGELL JONATHAN E) 25 December 2003 (2003-12-25) paragraphs '0035!, '0036!	1-15,37
X	WO 91/03437 A (HOLDERCHEM 'HOLDERBANK' BAUCHEMIE AG) 21 March 1991 (1991-03-21) claim 5	1-15,37

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

4 April 2005

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK2004/000520

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 16-36
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 16-36

Present claims 14 and 15 relate to methods for preparing a cured product comprising i.a. a binder system derived from an amorphous, inorganic material M (claim 14), wherein the material M is an oxide (claim 15). However, the application as filed only provides support within the meaning of Article 6 PCT and sufficient disclosure within the meaning of Article 5 PCT for those methods wherein the inorganic material M is amorphous silica.

Similarly, present claims 16 to 36 have not been searched because the scope of protection sought by said claims falls outside the extent of the subject-matter disclosed in and supported by the description of the present invention, since the above-mentioned inorganic material M cannot be amorphous silica in said claims.

Therefore, the search has been limited to those methods for preparing cured products comprising i.a. a binder system derived from amorphous silica, and a reasonable generalization thereof. A partial International Search Report is being issued, according to the provisions of Article 17(2)(b) PCT.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000520

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003233962	A1	25-12-2003	NONE
WO 9103437	A	21-03-1991	CH 679665 A5 31-03-1992
			CH 678179 A5 15-08-1991
			AT 106372 T 15-06-1994
			WO 9103437 A1 21-03-1991
			DE 59005942 D1 07-07-1994
			DK 441924 T3 19-09-1994
			EP 0441924 A1 21-08-1991
			ES 2057582 T3 16-10-1994